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REMARKS

Claims 46 and 47 have been amended. New claims 49-95 have been added. Support for the amendments and new claims can be found throughout the specification. No new matter has been added.

Attached is a marked-up version of the changes being made by the current amendment.

Applicants ask that all claims be examined. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

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Version with markings to show changes made

In the claims:

Claim 46 and 47 have been amended as follows:

46. (Amended) A method of detecting an interaction between a **[compound]** composition and a biological **[target]** moiety comprising **[the steps of]**:

providing a composition capable of a characteristic spectral emission, the

composition comprising a compound; a semiconductor nanocrystal associated

with the compound **[wherein said spectral emission is tunable to a desired**

wavelength by controlling the size of the nanocrystal, and wherein said

emission provides information about a biological state or event]; and

allowing a sample comprising a biological **[target]** moiety to interact with the

composition; and

detecting the interaction of the biological **[target]** moiety by monitoring the

spectral emission of the composition.

47. (Amended) The method of claim **[47]** 46, wherein monitoring the spectral emission **[is associated with]** occurs in assays selected from the group consisting of: immunochemistry, immunocytochemistry, immunobiology, immunofluorescence, DNA sequence analysis, fluorescence resonance energy transfer, flow cytometry, fluorescence activated cell sorting, diagnostics in biological systems, and high-throughput screening.